

XII. On several Species of *Bolboceras*, Kirby, from New Holland, in the Collection of the Rev. F. W. HOPE, F.R.S., &c. By the late Mr. WILLIAM BAINBRIDGE, Assistant Curator to the Entomological Society of London.

[Read 3 June, 1839.]

M. le Comte Laporte de Castelnau, in the third volume of the "Histoire Naturelle des Animaux Articulés," makes mention of about twenty species of *Bolboceras*, a genus of lamellicorn beetles allied to *Geotrupes*. It is remarkable that only one of them is described as occurring in New Holland, namely the *Bolboceras Australasiæ*. Observing in the collection of the Rev. F. W. Hope several new, large, and singular species, I solicited his permission to describe them, and now offer them to the Entomological Society of London.

Sp. 1. *Bolboceras Kirbii*, Bainbridge.

Testaceus, thorace nigricante, punctatissimo seu varioloso-punctulato, antice fortiter retuso, capite obtuse carinato ♂.

Long. corp. lin.  $10\frac{1}{2}$ , lat. lin. 6.

Corpus subrotundatum, totum supra testaceum, subtus pubescens.

Caput medio cornutum, apice inciso, antice truncatum, angulis externis fortiter interne incis; margine inflexo. Thorax antice retusus, postice rotundatus et punctulatus. Elytra striato-punctata. Corpus subtus concolor, pubescens; tibiæ anticæ dentatæ, ultimo minuto, serraturis nigris; calcaria tibiarum longissima.

This species was received from Melville Island.

I add to the short Latin description a more detailed one in English.

Entirely of a castaneous brown, the head and punctulated part of the thorax and scutellum of a darker colour. Head elongate-quadrate, in the middle is an elevated carina, with the anterior angles circularly recurved, and descending to the margin; from whence arises another keel, ascending higher than the first, with the apex furcate, the intermediate spaces being closely rugulose-punctate. Thorax convex, very broad behind, anteriorly truncate, roughly punctate in the middle, and very glossy in front, with two circular perforations near the anterior margin; in the

centre is a deep, broad, coarsely punctate channel, with a smooth shining space on each side, the hinder part smooth and shining, with a line of punctures along the posterior margin. Elytra convex, glabrous, punctato-striate, shoulders elevated. Body beneath paler than above, and beset with tawny hairs.

The female of this species is shorter and more convex than the male, in other points they are very much alike.

Sp. 2. *B. latus*, Bainbridge.

Castaneus, thorace punctatissimo, antice retuso, capite externe denticulato.

Long. lin. 9, lat. lin.  $5\frac{1}{2}$ .

Corpus rotundatum, totum supra castaneum, subtus pubescens.

Clypeus irregulariter truncatus, medio incisus. Caput lateribus utrinque denticulatis. Thorax sparsim punctulatus, antice lineâ transversâ elevatâ irregulari notatâ, marginibus serratis. Elytra striato-punctata. Corpus subtus pubescens, rufo-testaceum, capitulo antennarum flavo.

This species was received from Captain Roe, of the New Settlement of Swan River in Australia.

Entirely of a castaneous brown colour. Clypeus and head closely punctured, the latter with an undulated carina, with the ends produced into short horns; a luniform impression behind. Thorax broad, retuse, and very much punctate in the front; with an undulated carina and two punctate impressions at the posterior angles: smooth and glossy at the base. Scutellum convex, smooth. Elytra punctato-striate. Legs and body beneath pale castaneous, beset with tawny hairs.

This species appears to be a female, the male of which is not known.

Sp. 3. *B. serricollis*, Bainbridge ♂.

Castaneus, capite antice dentato; thorace antice retuso, bicornuto, nigro.

Long. lin.  $8\frac{1}{2}$ , lat. lin. 5.

Totum corpus supra castaneum, infra piceum. Clypeus lunæformis, angulis externis antice subcornutis. Thorax antice retusus, in medio prominentia elevata insignis, lateribus externis serratis, sparsim punctulatis. Elytra striato-punc-

tata. Corpus subtus rubro-piceum, pubescens; femoribus pallidioribus.

Received from Captain Roe, from the Swan River.

Castaneous brown. Head elongate, quadrate, with two lunulated horns, and a lunate impression behind. Thorax very broad, punctate in the middle, with an elevated carina having an angular notch in the centre, and a very large and deep fovea near each anterior angle, very glossy at the base. Elytra punctate-striate, shoulders prominent. Body beneath dark castaneous, beset with tawny hairs. Anterior tibiæ with five teeth.

The female of this species is very like the male, but is smaller, and the thorax more truncate anteriorly, which is generally the case with the females of this genus. The fovea at the anterior angles of the thorax, so remarkable in the male, are much less distinct in this sex.

Sp. 4. *B. hastifer*, Bainbridge.

Piceus, thorace retuso cornuto, elytris nigricantibus; corpore subtus flavo et tomentos.

Long. lin. 8, lat. lin.  $4\frac{1}{2}$ .

Clypeus antice emarginatus, capite in medio cornu suberecto; binis dentibus utrinque armatus, postice lævis. Thorax antice retusus, postice carinatus, cornu erecto e medio disci thoracis surgente, apice incrassato. Elytra striato-punctata, nigricantia. Corpus infra flavum, tomentosum; oculis atris nitidis; tibiis anticis sex-dentatis, serraturis nigris.

This insect was sent to England by Captain Roe, from the Swan River in New Holland.

Head and thorax castaneous brown. Clypeus broad emarginate. Head smooth behind, punctate in front, with a short horn at the apex, and two elevated tubercles on each side near the eyes. Thorax broad, sparingly punctate, with an upright horn in the centre with the apex dilated, and surrounded by a nearly semicircular carina, behind the horn is a deep fovea; the scutellum is punctate, the disc smooth. Elytra dark brown, deeply punctate-striate; body beneath and legs pale castaneous, clothed with coarse hairs. Anterior tibiæ with six teeth.

Sp. 5. *B. 7-tuberculatus*, Bainbridge.

Totum corpus supra castaneum, infra testaceum et tomentosum, capite tuberculato.

Long. lin. 8, lat. lin.  $4\frac{1}{2}$ .

*Clypeus emarginatus*, capite 5-tuberculato seu dentibus quinque armato, dente antico robusto, quatuor aliis fere æqualibus, binis lateralibus minutis. Thorax retusus, in medio fovea fortiter impressus. Elytra striato-punctata. Corpus infra flavum et tomentosum; tibiis anticis 6-dentatis, serraturis nigris.

This insect is also from the Swan River, New Holland.

Castaneous brown. Clypeus with five elevated tubercles, four at the base and one at the apex. Thorax punctate, with a nearly semicircular carina, and a large, deep, smooth fovea in the front, also with a short tubercle in the centre. Scutellum punctate, depressed and anteriorly rugose. Elytra shining, punctate-striate. Body beneath, and legs, pale castaneous, and clothed with coarse hairs. Anterior tibiæ armed with six teeth.

Sp. 6. *B. fissicornis*, Bainbridge.

Castaneus, capite quinque-dentato, thorace cornuto medio inciso, corpore subtus flavescenti tomentoso.

Long. lin. 7, lat. lin. 4.

*Clypeus subemarginatus*, quinque dentibus armatus, dente antico majori robusto, apice nigro; binis aliis utrinque minoribus. Thorax retusus, medio cornutus, apice fortiter inciso, seu melius dentibus binis armatus. Elytra striato-punctata, nigricantia, humeris pallidioribus. Corpus infra flavum, valdè tomentosum, femoribus testaceis; oculisque atris et nitidis.

From the Swan River Settlement.

Castaneus brown. Clypeus punctate, with a short horn at the apex, and two tubercles on each side at the base. Head smooth and glossy. Thorax very short, shining, punctate, with a bifid horn in front, behind which is a deep fovea surrounded by a semicircular carina. Elytra pitchy brown, punctate-striate, with the scutellum, suture, and basal angles, of a paler colour. Body beneath pale castaneous, and clothed with yellow hairs. Anterior tibiæ with six teeth.

Sp. 7. *B. trituberculatus*, Bainbridge.

Castaneus, capite quinque-dentato, thorace subretuso trituberculato.

Long. lin. 7, lat. lin. 4½.

Corpus subtus flavo-tomentosum. Clypeus quadridentatus, medio

emarginatus. Caput quinque-denticulatum, dentibus fere æqualibus. Thorax subretusus, medio ternis tuberculis armatus, interno minori. Elytra striato-punctata, corpus infra flavum et valdè tomentosum.

From the Swan River.

Castaneous brown. Clypeus quadridentate. Head punctate in front, smooth behind, with five nearly equal tubercles. Thorax very shining, sparingly punctate, with three horns in the centre, the middle one shortest, the lateral ones recurved, behind there is an oblique glossy space, encircled with an irregular carina. Scutellum glossy, punctate. Elytra pitchy brown, punctate-striate. Anterior tibiæ with five teeth.

Mr. Kirby's species, *B. Australasiæ*, described in the Transactions of the Linnæan Society (Vol. XII.), is a female, and from its pale chesnut colour I should consider it as immature. The male does not appear to be known.

Note.—M. Guérin Meneville has published the descriptions of two species of this genus, from Swan River, in the *Magasin de Zoologie*. (Insectes du Voyage de la Favorite, p. 50, 51.)—Sec. E. S.

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